



CONSTRUCTION EQUIPMENT

VOLVO L110F VCEL110FT00005248 - DIESEL ENGINE



Sample No: VCP425524
Oil Type: PETRO CANADA 10W30
Job No:



SAMPLE INFORMATION

Sample Number	VCP425524	VCP327813	VCP302807	VCP228832
Sample Date	23 May 2024	20 Jun 2022	26 Aug 2021	16 Jul 2019
Machine Hours	11698	11464	11365	10247
Oil Hours	300	0	0	300
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.8	11.9	12.2	12.4
Base Number (BN)	mg KOH/g	6.5	8.5	---	---
Oxidation (PA)	%	68	70	69	69

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.1	0.3	0.2
Nitration (PA)	%	68	59	65	64
Sulfation (PA)	%	58	59	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	5
Sodium	ppm	3	3	2	4
Potassium	ppm	7	6	7	0



WEAR METALS

Iron	ppm	7	4	5	5
Copper	ppm	7	5	3	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	1	0	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	7	4	6	4
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1991	2217	2345	2341
Magnesium	ppm	72	40	42	37
Zinc	ppm	1011	1205	1151	1246
Phosphorus	ppm	878	989	997	1028
Barium	ppm	0	0	0	<1
Boron	ppm	148	187	186	170

Depot: WOOSTM
Unique No: 11058222
Signed: Wes Davis
Report Date: 31 May 2024



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GRAPHS

